Total No. of printed pages = 7

## RETEST EXAMINATION 2019

Semester: 2nd (Old & New) ATRAL INS

Subject Code: Sc-203

## CHEMISTRY - II

Full Marks -70

Time - Three hours

The figures in the margin indicate full marks for the questions.

## Instructions:

- 1. Questions on PART-A are compulsory.
- 2. Answer any five questions from PART-B.

PART – A Marks – 25

- 1. Fill in the blanks:  $1\times10=10$ 
  - (a) Carboxy hemoglobin is caused due to inhalation of ———.

  - (c) To remove acidic gangue, ———— flux is used.

Turn over

124/Sc-203/Chem-II(O&N)	(b) Hydrocarbons a	(a) Determination of that of B.O.D.	2. Write true or false of the following:	(j) In I.U.P.A.C sys	(i) Urea was first s	(h) Linear polymers polymerization.	(g) A high aniline po high amount —	(f) For manufacturing kiln is used	(e) Gasoline contains those of kerosene.	(d) Froth floatation m
(2)	Hydrocarbons are greenhouse gases.	Determination of C.O.D takes more time than that of B.O.D.	of the following:	In I.U.P.A.C system alcohols are named as	Urea was first synthesized in laboratory by	polymers are formed by ———rization.	A high aniline point indicates the presence of high amount ——— hydrocarbons.	ng of Portland cement sed.	hydrocarbon than e.	Froth floatation method is useful for ———ore concentration.
124/Sc-203/Chem-II(O&N) (3) [Turn over	(iv) a poisonous gas	(iii) an elementary gas	ECHNOL	(a) Carbon diagraphs.		(i) Halogenations of alkanes are substitutions reactions.	<ul><li>(h) Carboxylic acid and aldehydes are isomeric.</li></ul>	<ul><li>(f) Polystyrene is a thermosetting resin.</li><li>(g) There is no com-</li></ul>	- '	(c) Coal is a primary but coke is secondary fuel.

- (ii) basic flux
- (iii) reducing agent
- (iv) organic compound
- (c) Octane No. is used to determine the quality of
- (i) kerosene
- (ii) diesel
- (iv) naphtha

(iii) petrol

- (d) Polythene is
- (i) an addition polymer
- (ii) a condensation polymer
- (iii) a branched polymer
- (iv) a thermosetting polymer.
- (e) The first member of alkenes homologous series is
- (i) methene
- (ii) ethene
- (iii) acetylene
- (iv) methanal.



## PART – B Marks – 45 What are primary and secondary pollutants? Give examples. Mention the ill effects of acid rain.

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(c) Suggest few ways to control soil pollution.

- (a) Give the principle of Froth floatation method of concentration.
- (b) Differentiate between Roasting and Calcination.
- (c) Write the chemical reactions involved in the manufacturing of cast iron in blast furnace.
- 6. (a) Give the differences between Ore and Mineral of metals.
- (b) What are fluxes? Give examples of acidic and basic fluxes.
- (c) Mention the advantages of Open hearth process over Bessemer process.

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- (a) Give the average composition of Portland cement.
- 3 What is special cement?
- <u></u> How is Portland cement manufactured in Wet process? Give your answer with flow chart.
- 00 (a) Define lubricant.

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- (b) Mention the various functions of lubricant.
- <u></u> Name the properties which are considered for selecting a lubricant CENTRAL BARY
- 9. (a) Define metallic corrosion
- (b) Explain the mechanism of Rusting. 3

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- <u></u> How metallic corrosion can be controlled?
- 10. (a) What is polymerization? Give the classification of polymerization. 1+2=3
- 3 Name the monomers of natural rubber and PVC.
- <u></u> Write the differences of thermoplastic and thermosetting plastic (resin).

124/Sc-203/Chem-II(O&N)

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- II. (a) What are hydrocarbons? Classify hydrocarbons with examples. 2+2=4
- (b) Write the structure and names of the isomers of C<sub>5</sub>H<sub>10</sub>.
- (c) How is methane prepared in laboratory?
- 12. (a) Give one example of each of addition, elimination and substitution reaction.
- with aqueous KOH and alcoholic KOH? What happens when alkyl halides are treated 2+2=4
- 在一支机 What are aromatic hydrocarbons?